Author Index of Volume 58

Agostiano, A., 201
Al-Sayyed, G., 99
Almeida, F. C. L., 289
Andre, J.-C., 71
Andre, J. C., 63

Batten, R. J., 115
Beaton, H. G., 307
Bellobono, I. R., 307
Berci Fo, P., 289
Bisht, P. B., 295
Bolton, J. R., 315
Bottcher, A., 239
Bouchy, A., 63

Castellan, A., 263, 349
Champion, S., 63
Chattopadhyay, N., 31
Colombo, N., 263
Cosma, P., 201
Cunningham, J., 361

D'Oliveira, J.-C., 99
Darmanyan, A. P., 185
Davey, K., 307
Davidson, R. S., 115, 123, 263, 349
Della Monica, M., 201
Dissanayake, M. A. K. L., 323
dos Santos, O., 289
Dunn, L., 263
Dunn, L. A., 349
Dürr, H., 37

Eaton, D. F., 373

Fisher, J. R., 173
Fröschle, B., 331

Gafney Horgan, A., 373

Hadjoudis, E., 37
Halpern, A. M., 1
Holderbaum, M., 37
Horgan, J. P., 373

Illeperuma, O. A., 323
Inagaki, F., 51

Jardon, P., 185
Jayatilake, W. D. W., 323
Joussot-Dubien, J., 225

Kamachi, M., 239
Ketipearahchi, U. S., 323
Kiridena, W. C. B., 323
Konishi, Y., 239
Kreysig, D., 15
Kuwata, K., 239

Lambert, C., 339
Lamotte, M., 225
Lampe, F. W., 173
Land, E. J., 339
Lapouyade, R., 225
Lazorchak, N., 185
Lipczynska-Kochany, E., 315
Lopez-Arbeloa, I., 277

Majima, T., 239
Marcandalli, B., 253
McFarlane, J., 139
Midoux, N., 71

Neumann, M. G., 289
Noukakis, D., 393
Nourmamode, A., 263, 349

Pant, D. D., 295
Pereyre, J., 225
Periasamy, N., 215
Pichat, P., 99
Pilas, B., 339
Poirier, R. A., 191
Polanyi, J. C., 139
Polimeni, G., 253
Politi, M. J., 289

Ramachandran, B. R., 1
Reader, C. J., 307
Rohatgi-Mukherjee, K. K., 277
Roizard, C., 71

Samuel, C. J., 307
Sarna, T., 339
Schnabel, W., 239
Selbmann, Ch., 15
Selli, E., 253
Shapter, J. G., 139
Srijaranai, S., 361
Srivatsavoy, V. J. P., 215
Stumpe, J., 15
Suppan, P., 393

Tennakone, K., 323
Tomioka, H., 51
Toscano, V. G., 289
Tripathi, H. B., 295
Truscott, T. G., 339

Viriot, M. L., 63
von Bünau, G., 331

Wilkinson, S. A., 115, 123
Wolff, T., 331

Yadav, A., 191

Zhu, J. H., 263

Elsevier Sequoia/Printed in The Netherlands

Subject Index of Volume 58

Absorption
studies of the triplet state properties of 1,5-diaminoanthraquinone using laser flash photolysis, 215
Acid catalysis
homogeneous acid catalysis of the trans-cis photo-isomerization reaction of *trans*-3-(2-hydroxy-benzylidene)-4,5-dihydrofuran-2(3H)-one, 253
Acylphosphine oxides
photolysis of acylphosphine oxides. IV. Investigations with di-*n*-butyl-2,6-dichlorobenzoyl phosphine oxide and dicyclohexyl-2,4,6-trimethylbenzoyl phosphine oxide, 239
Adsorption
sensitized photo-oxidations of dissolved alcohols in homogeneous and heterogeneous systems. Part 2. TiO_2-sensitized photodehydrogenations of benzyl alcohol, 361
Alcohol
formation of chlorophyll *a* photoreactive dimers in alcoholic mixtures: spectroscopic and electrochemical study, 201
Amines
fluorescence self-quenching in saturated tertiary amines: the role of a "non-emissive" excimer, 1

Bacteriorhodopsin
photoisomerization of Rhodopsin and Bacteriorhodopsin: an *ab initio* study, 191
Benzyl alcohol
sensitized photo-oxidations of dissolved alcohols in homogeneous and heterogeneous systems. Part 2. TiO_2-sensitized photodehydrogenations of benzyl alcohol, 361
Bi-photochromic compounds
novel bi-photochromic systems: dihydroindolizines with a Schiff base moiety, 37

Carbazole
effect of cyclodextrin complexation on excited state proton transfer reactions, 31
Chlorophenol
flash photolysis/HPLC method for studying the sequence of photochemical reactions: applications to 4-chlorophenol in aerated aqueous solution, 315
semiconductor-sensitized photogradation of 4-chlorophenol in water, 99
Chlorophyll *a*
formation of chlorophyll *a* photoreactive dimers in alcoholic mixtures: spectroscopic and electrochemical study, 201
Chromatography
flash photolysis/HPLC method for studying the sequence of photochemical reactions: applications to 4-chlorophenol in aerated aqueous solution, 315
Curing
radiation curing of an epoxy-acrylate-6,7-epoxy-3,7-dimethyloctyl acrylate, 115
Cyclodextrin
effect of cyclodextrin complexation on excited state proton transfer reactions, 31

Decomposition
reactions of silylene in the infrared multiphotoninduced decomposition of silane–ethylene mixtures, 173
1,5-Diaminoanthraquinone
studies of the triplet state properties of 1,5-diaminoanthraquinone using laser flash photolysis, 215
Diethylamine
steady state and transient study of 2-naphthol-diethylamine charge transfer complexes in polar and non-polar solvents, 295
Dihydroindolizines
novel bi-photochromic systems: dihydroindolizines with a Schiff base moiety, 37
3,4-Dimethoxy-α-(2′-methoxyphenoxy)-acetophenone
approach to understanding the mechanism of protection of bleached high-

Elsevier Sequoia/Printed in The Netherlands

yield pulps against photoyellowing by reducing agents using the lignin model dimer: 3,4-dimethoxy-α-(2′-methoxyphenoxy)-acetophenone, 263

Electron spin resonance
role of free radicals in photosensitized oxidation reactions induced by merocyanine 540, 339
Electron transfer
mechanism of coinitiation of photopolymerization of methyl methacrylate by hexaarylbiimidazole–hydrogen-atom donor combinations. The role of electron transfer *vs.* direct hydrogen-atom abstraction, 373
Epoxides
electron-beam-induced polymerization of epoxides, 123
radiation curing of an epoxy-acrylate-6,7-epoxy-3,7-dimethyloctyl acrylate, 115
Equilibrium constants
steady state and transient study of 2-naphthol-diethylamine charge transfer complexes in polar and non-polar solvents, 295
Ethylene
reactions of silylene in the infrared multiphotoninduced decomposition of silane–ethylene mixtures, 173
Europium chelate
study of O_2 (1 g) generating during europium chelate luminescence quenching by molecular oxygen in a liquid solution, 185

Fluorescence
fluorescence self-quenching in saturated tertiary amines: the role of a "non-emissive" excimer, 1
solvent-induced changes in the photophysical properties of *N*-alkylphthalimides. II. Temperature and acidity effects, 289
study of the photobleaching and photoyellowing of paper containing lignin using fluorescence spectroscopy, 349

Hydrogen atom abstraction
mechanism of coinitiation of photopolymerization of methyl methacrylate by hexaarylbiimidazole–hydrogen-atom donor combinations. The role of electron transfer *vs.* direct hydrogen-atom abstraction, 373

Ionization
photodissociation dynamics of NO_2 at 248 nm, 139
Iron phosphate
photodecomposition of water using Fe^{II}/Fe^{III} phosphates as an intermediate redox couple, 323
Irradiation
study of the photobleaching and photoyellowing of paper containing lignin using fluorescence spectroscopy, 349
photoreactions in liquid crystals. 2. Photo-Fries rearrangement of aromatic esters in liquid crystalline matrices, 15
photolysis of acylphosphine oxides. IV. Investigations with di-*n*-butyl-2,6-dichlorobenzoyl phosphine oxide and dicyclohexyl-2,4,6-trimethylbenzoyl phosphine oxide, 239

Laser flash photolysis
role of free radicals in photosensitized oxidation reaction induced by merocyanine 540, 339
Luminescence quenching
study of O_2 (1 g) generation during europium chelate luminescence quenching by molecular oxygen in a liquid solution, 185

Merocyanine 540
role of free radicals in photosensitized oxidation reactions induced by merocyanine 540, 339
Methyl methacrylate
mechanism of coinitiation of photopolymerization of methyl methacrylate by hexaarylbiimidazole–hydrogen-atom donor combinations. The role of electron transfer *vs.* direct hydrogen-atom abstraction, 373
Monte Carlo simulation
industrial photochemistry. XVI. Monte Carlo modelling of light curing applied to photolithography, 63

N-alkylphthalimides
solvent-induced changes in the photophysical properties of *N*-alkylphthalimides. II. Temperature and acidity effects, 289
Naphthol
steady state and transient study of 2-naphthol-diethylamine charge transfer complexes in polar and non-polar solvents, 295
Naphthylamine
effect of cyclodextrin complexation on excited state proton transfer reactions, 31
Nitrogen dioxide
photodissociation dynamics of NO_2 at 248 nm, 139

Oxidation
role of free radicals in photosensitized oxidation reactions induced by merocyanine 540, 339

Perylene
multiphotonic photolysis of perylene and pyrene in liquid cyclohexane, 225
Phenyl-*trans*-cyclohexane-1-carboxylates
photoreactions in liquid crystals. 2. Photo-Fries rearrangement of aromatic esters in liquid crystalline matrices, 15
Phenylbenzoate
Photoreactions in liquid crystals. 2. Photo-Fries rearrangement of aromatic esters in liquid crystalline matrices, 15
Photo-oxidation
sensitized photo-oxidations of dissolved alcohols in homogeneous and heterogeneous systems. Part 2. TiO_2-sensitized photodehydrogenations of benzyl alcohol, 361
Photobleaching
study of the photobleaching and photoyellowing of paper containing lignin using fluorescence spectroscopy, 349
Photochemistry
industrial photochemistry. XVII: macroscopic transport effects on the performance of photochemical reactors, 71
Photochromism
photochromism of spiropyrans in polyion complex cast films: formation of stable aggregates of photomerocyanines, 51
Photocycloadditions
photocycloadditions to a pyrone analogue, 307
Photodecomposition
photodecomposition of water using Fe^{II}/Fe^{III} phosphates as an intermediate redox couple, 323
Photodegradation
approach to understanding the mechanism of protection of bleached high-yield pulps against photoyellowing by reducing agents using the lignin model dimer: 3,4-dimethoxy-α-(2′-methoxyphenoxy)-acetophenone, 263
semiconductor-sensitized photogradation of 4-chlorophenol in water, 99
Photodissociation
photodissociation dynamics of NO_2 at 248 nm, 139
Photoisomerization
homogeneous acid catalysis of the trans-cis photo-isomerization reactions of *trans*-3-(2-hydroxy-benzylidene)-4,5-dihydrofuran-2(3H)-one, 253
intramicellar heavy atom effects in the photoisomerization of 5,5-diphenyl-1,3-cyclohexadiene, 331
photoisomerization of Rhodopsin and Bacteriorhodopsin: an *ab initio* study, 191
Photolithography
industrial photochemistry. XVI. Monte Carlo modelling of light curing applied to photolithography, 63
Photolysis
flash photolysis/HPLC method for studying the sequence of photochemical reactions: applications to 4-chlorophenol in aerated aqueous solution, 315
multiphotonic photolysis of perylene and pyrene in liquid cyclohexane, 225
photodecomposition of water using Fe^{II}/Fe^{III} phosphates as an intermediate redox couple, 323
studies of the triplet state properties of 1,5-diaminoanthraquinone using laser flash photolysis, 215
photolysis of acylphosphine oxides. IV. Investigations with di-*n*-butyl-2,6-dichlorobenzoyl phosphine oxide and dicyclohexyl-2,4,6-trimethylbenzoyl phosphine oxide, 239

Photophysics
correlation of liquid structure with the photophysics of rhodamine B (acidic, basic and ester forms) in water–ethanol mixed solvent, 277
Photopolymerization
mechanism of coinitiation of photopolymerization of methyl methacrylate by hexaarylbiimidazole–hydrogen-atom donor combinations. The role of electron transfer *vs.* direct hydrogen-atom abstraction, 373
Photostabilizers
mechanism of protection of polymers by photostabilizers, 393
Polymerization
electron-beam-induced polymerization of epoxides, 123
Proton transfer
mechanism of protection of polymers by photostabilizers, 393
Pulse radiolysis
role of free radicals in photosensitized oxidation reaction induced by merocyanine 540, 339
Pyrene
multiphotonic photolysis of perylene and pyrene in liquid cyclohexane, 255
Pyrone
photocycloadditions to a pyrone analogue, 307

Quenching rates
steady state and transient study of 2-naphthol-diethylamine charge transfer complexes in polar and non-polar solvents, 295

Radiation
radiation curing of an epoxy-acrylate-6,7-epoxy-3,7-dimethyloctyl acrylate, 115
Reducing agents
approach to understanding the mechanism of protection of bleached high-yield pulps against photoyellowing by reducing agents using the lignin model dimer: 3,4-dimethoxy-α(2′-methoxyphenoxy)-acetophenone, 263
Rhodamine B
correlation of liquid structure with the photophysics of the rhodamine B (acidic, basic and ester forms) in water–ethanol mixed solvent, 277
Rhodopsin
photoisomerization of Rhodopsin and Bacteriorhodopsin: an *ab initio* study, 191

Schiff bases
novel bi-photochromic systems: dihydroindolizines with a Schiff base moiety, 37
Self-quenching
fluorescence self-quenching in saturated tertiary amines: the role of a "non-emissive" excimer, 1
Silane
reactions of silylene in the infrared multiphotoninduced decomposition ofsilane–ethylene mixtures, 173
Silylene
reactions of silylene in the infrared multiphotoninduced decomposition of silane–ethylene mixtures, 173
Singlet oxygen
study of O_2 (1 g) generation during europium chelate luminescence quenching by molecular oxygen in a liquid solution, 185
Solute–solvent interactions
correlation of liquid structure with the photophysics of rhodamine B (acidic, basic and ester forms) in water–ethanol mixed solvent, 277
Spiropyrans
photochromism of spiropyrans in polyion complex cast films: formation of stable aggregates of photomerocyanines, 51

Trans-3(2-hydroxy-benzylidene)-4,5-dihydrofurane-2(3H)-one
homogeneous acid catalysis of the trans-cis photoisomerization reaction of trans-3-(2-hydroxy-benzylidene)-4,5-dihydrofuran-2(3H)-one, 253
Triplet lifetimes
studies of the triplet state properties of 1,5-diaminoanthraquinone using laser flash photolysis, 215